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NOTICE OF ALLOWANCE AND FEE(S) DUE

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09/08/2008

NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203

EXAM	IINER
NGUYEI	N, HAI V
ART UNIT	PAPER NUMBER

2618 DATE MAILED; 09/08/2008

ĺ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/582.490	04/10/2007	Marcus Wallmark	4660-9	2153

TITLE OF INVENTION: EXCHANGEABLE MODULE FOR ADDITIONAL FUNCTIONALITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/08/2008

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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10/582,490	04/10/2007		Marcus Wallmark		•		4660-9	2153
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23117 7:	590 09/08/2008		EXAM	INER
NIXON & VAN	DERHYE, PC		NGUYE	N, HAI V
	BE ROAD, 11TH FLO	OR	ART UNIT	PAPER NUMBER
ARLINGTON, VA	A 22203		2618	
			DATE MAILED: 09/08/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability The MAILING DATE of this communication appears on the case All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAIN herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other apply NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1. This communication is responsive to 03 July 2008.	Cover sheet with the correspondence address INS) CLOSED in this application. If not included propriate communication will be mailed in due course. THIS is application is subject to withdrawal from issue at the initiative 1308. C. § 119(a)-(d) or (f).
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1 X This communication is responsive to 03 July 2008	ved.
The semination is responsive to <u>see sary 2000</u> .	ved.
2. 🔀 The allowed claim(s) is/are <u>1-22</u> .	ved.
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received. 3. Copies of the certified copies of the priority documents have 	· · · · · · · · · · · · · · · · · · ·
International Bureau (PCT Rule 17.2(a)).	
* Certified copies not received:	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this comm noted below. Failure to timely comply will result in ABANDONMENT of this a THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the	application. he attached EXAMINER'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) v	·
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted	
 (a) ☐ including changes required by the Notice of Draftsperson's Patent I 1) ☐ hereto or 2) ☐ to Paper No./Mail Date 	Drawing Review (PTO-948) attached
(b) ☑ including changes required by the attached Examiner's Amendmen Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should	
each sheet. Replacement sheet(s) should be labeled as such in the header acc	
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLC attached Examiner's comment regarding REQUIREMENT FOR THE DE 	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 5.	Notice of Informal Patent Application
	i.
	Paper No./Mail Date Examiner's Amendment/Comment
Paper No./Mail Date <u>06/19/2008</u>	. ☑ Examiner's Statement of Reasons for Allowance
of Biological Material	. Other

Art Unit: 2618

Examiner Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. H. Warren Burnam Jr., registration # 29,366 on 25 July 2008.

The application has been amended as follows:

Application/Control Number: 10/582,490

Page 3

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An exchangeable power-supplying unit arranged to supply electric power to a device, the said exchangeable power-supplying unit comprising:

at least one processing unit arranged to pre-process information and to communicate said pre-processed information to the said device for providing said device with at least one additional function; and

a cryptographic circuit for coding or decoding said pre-processed information.

- 2. (Currently Amended) the said exchangeable power-supplying unit according to claim
- 1, wherein said <u>exchangeable</u> power-supplying unit is connectable to form an integral part of the said device.
- 3. (Currently Amended) the said exchangeable power-supplying unit according to claim
- 1, wherein said <u>exchangeable power-supplying</u> unit comprises a communication link for communicating said pre-processed information to <u>the said</u> device.
- 4. (Currently Amended) the said exchangeable power-supplying unit according to claim
- 3, wherein said communication link is a high-speed data-bus.
- 5. (Currently Amended) the said exchangeable power-supplying unit according to claim
- 1, wherein <u>said</u> cryptographic circuit comprises at least one circuit board[[s]] and/or at least one integrated circuit[[s]], comprising hardware to form <u>said</u> at least one processing unit[[s]].
- 6. (Currently Amended) the said exchangeable power-supplying unit according to claim

Art Unit: 2618

- 5, wherein the <u>said</u> at least one circuit board <u>and/or the said</u> at least one integrated circuit further comprises at least one of a mass-storage, a WLAN-modem, and a positioning device.
- 7. (Currently Amended) the <u>said exchangeable</u> power-supplying unit according to claim 1, wherein said exchangeable power-supplying unit is a battery.
- 8. (Currently Amended) A device comprising an exchangeable power-supplying unit, the said exchangeable power-supplying unit comprising:

at least one processing unit arranged to pre-process information and to communicate said pre-processed information to the said device for providing said device with at least one additional function[[s:]]; and

a cryptographic circuit for encoding or decoding said pre-processed information.

- 9. (Currently Amended)—A-said_device according to claim 8, wherein said device is a wireless handheld device, comprising at least one of a mobile phone, a PDA, a digital notebook, a land-radio, a two-way radio, a walkie-talkie, and an intelligent device.
- 10. (Currently Amended)-A said wireless handheld device according to claim 9, wherein the said exchangeable power-supplying unit has access to a receive/transmit channel of the said wireless handheld device.
- 11. (Currently Amended) A telecommunication system comprising a device, the <u>said</u> device comprising an exchangeable power-supplying unit, the <u>said</u> exchangeable power-supplying unit comprising:

at least one processing unit arranged to pro-process information and to communicate said pre-processed information to the said device for providing said device with at least one additional function[[s:-]]; and

a cryptographic circuit for encoding or decoding said pre-processed information.

12. (Currently Amended) A method for providing a device with at least one additional functionality, using an exchangeable power-supplying unit arranged to supply electric power to the said device and connected to said exchangeable power-supplying unit to form an integral part of the said device, the method comprising:

pre-processing information in at least one or several of processing units;
encoding or decoding said pre-processed information in said exchangeable
power-supplying unit by means of at least one circuit board[[s]] and/or one or several at
least one or several of integrated circuits comprising hardware to form a cryptographic
circuit[[,]]; and

communicating said encoded or decoded <u>said pre-processed</u> information to <u>the said</u> device.

- 13. (Previously Presented) A method according to claim 12, wherein said communication communicating is performed through a high-speed communication link.
- 14. (Previously Presented) A method according to claim 12, wherein said <u>at least</u> additional functionality is one or several of a cryptographic functionality, a mass-storage functionality, a WLAN functionality or a positioning functionality.
- 15. (Currently Amended) A method according to claim 12, wherein said device is a wireless handheld device is comprising at least one of a mobile phone, a PDA, a digital

Art Unit: 2618

notebook, a land-radio, a two-way radio, a walkie-talkie, and an intelligent device.

- 16. (Currently Amended) the <u>said</u> device according to claim 8, wherein said <u>exchangeable</u> power-supplying unit is connectable to form an integral part of the <u>said</u> device.
- 17. (Currently Amended) the <u>said</u> device according to claim 8, wherein said <u>exchangeable power-supplying</u> unit comprises a communication link for communicating said pre-processed information to the <u>said</u> device.
- 18. (Currently Amended) the <u>said</u> device according to claim 17, wherein said communication link is a high-speed data-bus.
- 19. (Currently Amended) the <u>said</u> device according to claim 18, wherein <u>said</u> cryptographic circuit comprises at least one circuit board and/or at least one integrated circuit, comprising hardware to form at least one processing unit[[s]].
- 20. (Currently Amended) the <u>said</u> device according to claim 19, wherein the <u>said</u> at least one circuit board and/or the <u>said</u> at least one integrated circuit further comprises at least one of a mass-storage, a WLAN-modem, and a positioning device.
- 21. (Previously Presented) the system according to claim 11, wherein said device is a wireless handheld device comprising at least one of a mobile phone, a PDA, a digital notebook, a land-radio, a two-way radio, a walkie-talkie, and an intelligent device.
- 22. (Currently Amended) A system according to claim 21, wherein the <u>said</u>

 <u>exchangeable</u> power-supplying unit has access to a receive/transmit channel of the <u>said</u>

 wireless handheld device.

Art Unit: 2618

Drawings

2. The following changes to the drawings 1A, 1B, 2 have been approved by the examiner according to MPEP 37 CFR 1.84(o). In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Reasons for Allowance

- 3. The following is an examiner's statement of reasons for allowance:
- 4. The primary reason for allowance of the claims is based on the inclusion of the element of "A wireless mobile (Figure 2, element 400) including an exchangeable power-supplying unit (Figure 2, element 300) comprising a cryptographic circuit (Figure 2, element 312) for encoding or decoding said pre-processed information" in independent claims 1, 8, 11, 12 and of Applicant's remarks on page17-19 received on 03 July 2008. The prior art are silent of the element above as explained below:

Abraham US patent # 5,048,085 only discloses in Figure 4 that the cryptographic module 31 comprising the battery backup circuit 77.

Maeda et al. US patent # 5,926,546 discloses only in figure 1 that, "The crypto module 14 may be built inside or attached to the vehicle-mounted device 10 and is for changing the encryption algorithm or the key data used for encryption. In other words, the crypto module 14 may be detached from the vehicle-mounted device 10 to reprogram its encryption software or may remain its encryption algorithm and key data. In this way, it is possible to change the encryption algorithm and the key data of the crypto module (col. 7, lines 34-43)".

Yamauchi et al. US patent # 6,728,827 B2 discloses only in figure 38 that, "A logic integrated DRAM 30 includes a SDRAM section 32 and a logic section 34 including a cryptographic operation logic 74 and a register section 72 holding mode information for controlling the cryptographic operation logic 74, data inputted to the cryptographic operation logic 74 and an operation result of the cryptographic operation

logic 74 in response to an output of the interface section 36, (col. 20, lines 64-65, col. 21, lines 33-38)".

Ryan, Jr. et al. US patent # 6,748,535 B1 discloses only in figures 1, 2 that, "During cryptographic operations, processor opens switch 41 and the charge stored in capacitor C1 is used to power cryptographic coprocessor 22 through the crypto power line, generally designated 44. When switch 41 is open, no power fluctuations of cryptographic coprocessor 22 are conducted out the external power input line 30 and, therefore, fluctuation on line 30 cannot be correlated with individual cryptographic operations, and DPA cannot be performed, Col. 7, lines 26-35".

Vatanen US 6,957,342 B2 discloses only in Figures 1, 3 that, "A security module (Figure 1, element Security Module 3; Figure 3, element SM1) integrated with the mobile station power source (Figure 3, element 12) and including encryption means and a first connection interface (Figure 1, element IF1), as described above in conjunction with the security module. The security module is preferably arranged to process information transmitted by the mobile station (Figure 3, element MS) over a telecommunication network and/or via a local communication interface of the mobile station. The security module may communicate with the mobile station and/or an external terminal or device by using Bluetooth technology (col. 4, lines 24-32; col. 5, lines 5-9; col. 6, lines 32-42)".

Dellmo et al. US 2002/0095594 discloses only in figure 2 that, "A secure wireless LAN device including a cryptographic circuit comprising one volatile memory for storing

Art Unit: 2618

the cryptographic information, and a battery for maintaining the cryptographic information in the volatile memory, (Abstract)".

Hayashi US 2003/0074572 A1 discloses only in figure 1 that, "The battery comprises a charges portion 20-2 in which electric charge are accumulated; the control circuit 20-1 which charges the charged portion 20-2 in response to a signal from the handheld terminal 1 and writes/reads the contexts including the number of cycles of charging /discharging and the private key "a" to/from the flash memory 20-3; and the flash memory 20-3 which stores the contexts including the number of cycles of charging/discharging and the private key "a", ([0027])".

Brown et al. US 2003/0128843 A1 discloses only in figure 1 that, "The portable device 10 comprises a cryptographic circuitry 62, power supply 14, a backup power 30".

- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 6. Claims 1-22 are allowed.

Art Unit: 2618

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to HAI V. NGUYEN whose telephone number is (571)272-

3901. The examiner can normally be reached on 6:00-3:30 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matthew Anderson can be reached on 571-272-4177. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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/Hai V. Nguyen/

Examiner, Art Unit 2618

/Matthew D. Anderson/

Supervisory Patent Examiner, Art Unit 2618